

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/536,735
Source: PCT/10
Date Processed by STIC: 6/6/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/06/2005

PATENT APPLICATION: US/10/536,735

TIME: 11:29:01

Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\06062005\J536735.raw

3 <110> APPLICANT: Ptacek, Louis J.
 4 Fu, Ying-Hui
 5 Jones, Christopher R.
 7 <120> TITLE OF INVENTION: Casein Kinase I Delta and Casein Kinase I Epsilon and Sleep
 in
 8 Humans
 10 <130> FILE REFERENCE: 1321.2.82p
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/536,735
 C--> 12 <141> CURRENT FILING DATE: 2005-05-27
 12 <160> NUMBER OF SEQ ID NOS: 12
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 2030
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1
 22 ggcgcatggc ggcggctcct ttaggcagct gaaaggggat ttaggcccgg aagatccgag 60
 24 tccatcccgcg gcggggagag gcaagcggg accggtaggg gccggagcag cggccggccgc 120
 26 gctcgactg tccccatccgc cccgtattga ggcgctggga gcggcggggc gacagggaaag 180
 28 cgatggtgaa agcggggcccg tgaggggggc ggagccggga gccggaccgg cagtagccgc 240
 30 agcagcggcg ccgcctccca gagttcagac ccaggaagcg gccgggaggg caggagcgaa 300
 32 tcgggcccgc gccgcctatgg agctgagagt cgggaacagg taccggctgg gccggaagat 360
 34 cggcagcggc tccttcggag acatcttatct cggtaacggac attgctgcag gagaagaggt 420
 36 tgcacatcaag cttgaatgtg tcaaaaaccaa acaccctcag ctccacatgg agagcaaaat 480
 38 ctacaagatg atgcaggag gagtgggcat cccaccatc agatggtgcg gggcagaggg 540
 40 ggactacaac gtcatggtga tggagctgtc gggccaagc ctggaggacc tcttcaactt 600
 42 ctgctccagg aaattcagcc tcaaaaaccgt cctgtgtctt gctgaccaaa tgatcagtcg 660
 44 catcgaatac attcatcaa agaacttcat ccacccggat gtgaagccag acaacttcct 720
 46 catgggcctg gggagaagg gcaaccttgtt gtacatcatc gacttcggc tggccaagaa 780
 48 gtaccggat gcacgcaccc accagcacat cccctatgt gagaacaaga acctcacggg 840
 50 gacggcgcgg tacgcctcca tcaacacgcac ctttggaaatt gaacaatccc gaagagatga 900
 52 cttggagtct ctggcgtacg tgcataatgtt cttcaacctg ggctctctcc cctggcaggg 960
 54 gctgaaggct gccaccaaga gacagaaata cgaaaggatt agcgagaaga aatgtccac 1020
 56 ccccatcgaa gtgttgta aaggctaccc ttccgaattt gccacatacc tgaatttctg 1080
 58 ccgttccttgc cgttttgcacg acaagcctga ctactcgtac ctgcggcagc tttccggaa 1140
 60 tctgttccat cgccagggtct tcccttatgtt ctacgtgttc gacttggaaaca tgctcaaatt 1200
 62 tggtgccagc cggggcccg atgacgccga gcccggagcgc agggaccggag aggagccgct 1260
 64 gagacactcg cggAACCCGG ctacccgcgg cttcccttcc acagcctccg gcccctcg 1320
 66 ggggacgcacg gaagtggctc ccccccacacc cttcacccctt acctcacaca cggctaacc 1380
 68 ctccccccgg cccgtctccg gcatggagag agagcgaaaa gtgagttatgc ggctgcaccg 1440
 70 cggggcccccgttcaacatct ctcgtccga ctcacagggc cgacaagata cctctcgat 1500
 72 gtcacacccatca cagattccctg gtcgggtggc ttccagtggt cttcgtatcg tcgtgcaccg 1560
 74 atgagaactc tccttattgc tggtaaggc agacaatgca tggctgatct actctgttac 1620
 76 caatggctt actagtgaca cgtccccccgg tcttaggatcg aatgttaac accggagct 1680

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/536,735

DATE: 06/06/2005

TIME: 11:29:01

Input Set : A:\Sequence Listing.ST25.txt

Output Set: N:\CRF4\06062005\J536735.raw

78	ctccaggcca	ctcaccgc	gacgctcg	ttggaaacat	actaaacgga	cagactccaa	1740
80	gagctgccac	cgctgggct	gcactgcggc	cccccacgt	aactcggtt	taacgggct	1800
82	ggaaagaaaa	gcagagagag	aattgcagag	aatcagactc	ctttccagg	gcctcagctc	1860
84	cctccagtgg	tggccccc	gtactccctg	acgattccac	tgtaactacc	aatcttctac	1920
86	tttgttaaga	cagtttgc	tcattttgt	aaaaattatt	gcttaaatc	tgtgtaaaga	1980
88	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2030
91	<210>	SEQ ID NO:	2				
92	<211>	LENGTH:	2106				
93	<212>	TYPE:	DNA				
94	<213>	ORGANISM:	Homo sapiens				
96	<400>	SEQUENCE:	2				
97	gcgcgatggc	ggcggctc	ttaggcagct	gaaagggat	ttaggcccgg	aagatccgag	60
99	tccatcccg	gcggggagag	ggcaagcgg	accggtaggg	gccggagcag	cgccggcggc	120
101	gtcggactg	tccatccgc	cccgatttga	ggcgctgg	gcggcgggc	gacaggaaag	180
103	cgatggtaaa	agcggggccg	tgagggggc	ggagccgg	gccggaccc	cagtagcggc	240
105	agcagcggcg	ccgcctccca	gagttcagac	ccaggaagcg	gccggaggg	caggagcga	300
107	tcggccgc	gcccacatgg	agctgagagt	cgggacagg	taccggctgg	gcccgaagat	360
109	cggcagcggc	tccttcggag	acatctatct	cggtacggac	attgctcg	gagaagaggt	420
111	tgcacatcaag	tttgcattgt	tcaaaaaccaa	acaccctcg	ctccacattt	agagcaaaat	480
113	ctacaagatg	atgcaggag	gagtggcat	ccccaccatc	agatggtcg	ggcagagagg	540
115	ggactacaac	gtcatggta	tggagctgt	ggggcaagc	ctggaggacc	tcttcaactt	600
117	ctgtccagg	aaatttgc	tcaaaaacgt	cctgtgtt	gctgacaaa	tgtcagtcg	660
119	catcgaatac	attcattcaa	agaacttcat	ccaccggat	gtgaagccag	acaacttcct	720
121	catggccctg	gggaagaagg	gcaacctgtt	gtacatcatc	gacttcggc	tggcaagaa	780
123	gtacccggat	gcacgcaccc	accagcacat	cccctatcg	gagaacaaga	acccacacgg	840
125	gacggcgcgg	tacgcctcca	tcaacacgca	ccttggatt	gaacaatccc	gaagagatga	900
127	cttggagtct	ctggctacg	tgctaatgt	cttcaacctg	ggctctctcc	ccttgcaggg	960
129	gtcgaaggct	gccaccaaga	gacagaaata	cgaaaggatt	agcgagaaga	aatgtccac	1020
131	ccccatcgaa	gtgttgc	taaggctaccc	ttccgaattt	gccacatacc	tgaatttctg	1080
133	ccgttcctt	cgtttgacg	acaaggctga	ctactcg	ctggcggc	tttccggaa	1140
135	tctgttccat	cgccagggt	tctcttatga	ctacgtgtt	gactggaa	tgctcaaatt	1200
137	tggtgccagc	cgggccggc	atgacggca	cgggagcgc	agggaccgg	aggagcggc	1260
139	gagacactcg	cggaacccgg	ctacccgg	cctccctcc	acagcctccg	gcccctcg	1320
141	ggggacgcag	gaagtggctc	cccccacacc	cctcacccct	acctcacaca	cggttaacac	1380
143	ctcccccccg	cccgctccg	gatggagag	agacggaaa	gtgagtatgc	ggctgcaccc	1440
145	cggggcccc	gtcaacatct	cctcgccg	cctcacaggc	cgacaagata	cctctcgcat	1500
147	gtccacactca	cagaatagca	tcccttcga	acaccacggc	aagtatgc	tgcgttccca	1560
149	tccgaaggca	gcactggatt	cctggcgg	tggcttccag	tggcttccag	tctgtcgtc	1620
151	accgatgaga	actctcccta	ttgctgtgaa	ggcagacaa	tgcgttcc	atctactctg	1680
153	ttaccaatgg	ctttactgt	gacacgtccc	ccggctttag	atcgaaatgt	taacaccgg	1740
155	agctctccag	gccactcacc	cagcgacgt	cgtggggaa	acatactaaa	cgacagact	1800
157	ccaagagctg	ccaccgctgg	ggctgcactg	cgcccccca	cgtgaactcg	gtttaacgg	1860
159	ggctggaaag	aaaagcagag	agagaattgc	agagaatcag	actcccttcc	caggcctca	1920
161	gtccctcca	gtggggccg	ccctgtactc	cctgacgatt	ccactgtaac	taccaatctt	1980
163	ctacttggtt	aagacagttt	tgtatcattt	tgctaaaaat	tattggctt	aatctgtgt	2040
165	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2100
167	aaaaaa						2106
170	<210>	SEQ ID NO:	3				
171	<211>	LENGTH:	415				

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/536,735

DATE: 06/06/2005
TIME: 11:29:01

Input Set : A:\Sequence Listing.ST25.txt
Output Set: N:\CRF4\06062005\J536735.raw

172 <212> TYPE: PRT
 173 <213> ORGANISM: Homo sapiens
 175 <400> SEQUENCE: 3
 177 Met Glu Leu Arg Val Gly Asn Arg Tyr Arg Leu Gly Arg Lys Ile Gly
 178 1 5 10 15
 181 Ser Gly Ser Phe Gly Asp Ile Tyr Leu Gly Thr Asp Ile Ala Ala Gly
 182 20 25 30
 185 Glu Glu Val Ala Ile Lys Leu Glu Cys Val Lys Thr Lys His Pro Gln
 186 35 40 45
 189 Leu His Ile Glu Ser Lys Ile Tyr Lys Met Met Gln Gly Gly Val Gly
 190 50 55 60
 193 Ile Pro Thr Ile Arg Trp Cys Gly Ala Glu Gly Asp Tyr Asn Val Met
 194 65 70 75 80
 197 Val Met Glu Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe Cys
 198 85 90 95
 201 Ser Arg Lys Phe Ser Leu Lys Thr Val Leu Leu Ala Asp Gln Met
 202 100 105 110
 205 Ile Ser Arg Ile Glu Tyr Ile His Ser Lys Asn Phe Ile His Arg Asp
 206 115 120 125
 209 Val Lys Pro Asp Asn Phe Leu Met Gly Leu Gly Lys Lys Gly Asn Leu
 210 130 135 140
 213 Val Tyr Ile Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Ala Arg
 214 145 150 155 160
 217 Thr His Gln His Ile Pro Tyr Arg Glu Asn Lys Asn Leu Thr Gly Thr
 218 165 170 175
 221 Ala Arg Tyr Ala Ser Ile Asn Thr His Leu Gly Ile Glu Gln Ser Arg
 222 180 185 190
 225 Arg Asp Asp Leu Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn Leu
 226 195 200 205
 229 Gly Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Arg Gln Lys
 230 210 215 220
 233 Tyr Glu Arg Ile Ser Glu Lys Lys Met Ser Thr Pro Ile Glu Val Leu
 234 225 230 235 240
 237 Cys Lys Gly Tyr Pro Ser Glu Phe Ala Thr Tyr Leu Asn Phe Cys Arg
 238 245 250 255
 241 Ser Leu Arg Phe Asp Asp Lys Pro Asp Tyr Ser Tyr Leu Arg Gln Leu
 242 260 265 270
 245 Phe Arg Asn Leu Phe His Arg Gln Gly Phe Ser Tyr Asp Tyr Val Phe
 246 275 280 285
 249 Asp Trp Asn Met Leu Lys Phe Gly Ala Ser Arg Ala Ala Asp Asp Ala
 250 290 295 300
 253 Glu Arg Glu Arg Arg Asp Arg Glu Glu Arg Leu Arg His Ser Arg Asn
 254 305 310 315 320
 257 Pro Ala Thr Arg Gly Leu Pro Ser Thr Ala Ser Gly Arg Leu Arg Gly
 258 325 330 335
 261 Thr Gln Glu Val Ala Pro Pro Thr Pro Leu Thr Pro Thr Ser His Thr
 262 340 345 350
 265 Ala Asn Thr Ser Pro Arg Pro Val Ser Gly Met Glu Arg Glu Arg Lys
 266 355 360 365

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/536,735

DATE: 06/06/2005

TIME: 11:29:01

Input Set : A:\Sequence Listing.ST25.txt
 Output Set: N:\CRF4\06062005\J536735.raw

269 Val Ser Met Arg Leu His Arg Gly Ala Pro Val Asn Ile Ser Ser Ser
 270 370 375 380
 273 Asp Leu Thr Gly Arg Gln Asp Thr Ser Arg Met Ser Thr Ser Gln Ile
 274 385 390 395 400
 277 Pro Gly Arg Val Ala Ser Ser Gly Leu Gln Ser Val Val His Arg
 278 405 410 415
 281 <210> SEQ ID NO: 4
 282 <211> LENGTH: 409
 283 <212> TYPE: PRT
 284 <213> ORGANISM: Homo sapiens
 286 <400> SEQUENCE: 4
 288 Met Glu Leu Arg Val Gly Asn Arg Tyr Arg Leu Gly Arg Lys Ile Gly
 289 1 5 10 15
 292 Ser Gly Ser Phe Gly Asp Ile Tyr Leu Gly Thr Asp Ile Ala Ala Gly
 293 20 25 30
 296 Glu Glu Val Ala Ile Lys Leu Glu Cys Val Lys Thr Lys His Pro Gln
 297 35 40 45
 300 Leu His Ile Glu Ser Lys Ile Tyr Lys Met Met Gln Gly Gly Val Gly
 301 50 55 60
 304 Ile Pro Thr Ile Arg Trp Cys Gly Ala Glu Gly Asp Tyr Asn Val Met
 305 65 70 75 80
 308 Val Met Glu Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe Cys
 309 85 90 95
 312 Ser Arg Lys Phe Ser Leu Lys Thr Val Leu Leu Ala Asp Gln Met
 313 100 105 110
 316 Ile Ser Arg Ile Glu Tyr Ile His Ser Lys Asn Phe Ile His Arg Asp
 317 115 120 125
 320 Val Lys Pro Asp Asn Phe Leu Met Gly Leu Gly Lys Lys Gly Asn Leu
 321 130 135 140
 324 Val Tyr Ile Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Ala Arg
 325 145 150 155 160
 328 Thr His Gln His Ile Pro Tyr Arg Glu Asn Lys Asn Leu Thr Gly Thr
 329 165 170 175
 332 Ala Arg Tyr Ala Ser Ile Asn Thr His Leu Gly Ile Glu Gln Ser Arg
 333 180 185 190
 336 Arg Asp Asp Leu Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn Leu
 337 195 200 205
 340 Gly Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Arg Gln Lys
 341 210 215 220
 344 Tyr Glu Arg Ile Ser Glu Lys Lys Met Ser Thr Pro Ile Glu Val Leu
 345 225 230 235 240
 348 Cys Lys Gly Tyr Pro Ser Glu Phe Ala Thr Tyr Leu Asn Phe Cys Arg
 349 245 250 255
 352 Ser Leu Arg Phe Asp Asp Lys Pro Asp Tyr Ser Tyr Leu Arg Gln Leu
 353 260 265 270
 356 Phe Arg Asn Leu Phe His Arg Gln Gly Phe Ser Tyr Asp Tyr Val Phe
 357 275 280 285
 360 Asp Trp Asn Met Leu Lys Phe Gly Ala Ser Arg Ala Ala Asp Asp Ala
 361 290 295 300

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/536,735

DATE: 06/06/2005

TIME: 11:29:01

Input Set : A:\Sequence Listing.ST25.txt
 Output Set: N:\CRF4\06062005\J536735.raw

364 Glu Arg Glu Arg Arg Asp Arg Glu Glu Arg Leu Arg His Ser Arg Asn
 365 305 310 315 320
 368 Pro Ala Thr Arg Gly Leu Pro Ser Thr Ala Ser Gly Arg Leu Arg Gly
 369 325 330 335
 372 Thr Gln Glu Val Ala Pro Pro Thr Pro Leu Thr Pro Thr Ser His Thr
 373 340 345 350
 376 Ala Asn Thr Ser Pro Arg Pro Val Ser Gly Met Glu Arg Glu Arg Lys
 377 355 360 365
 380 Val Ser Met Arg Leu His Arg Gly Ala Pro Val Asn Ile Ser Ser Ser
 381 370 375 380
 384 Asp Leu Thr Gly Arg Gln Asp Thr Ser Arg Met Ser Thr Ser Gln Asn
 385 385 390 395 400
 388 Ser Ile Pro Phe Glu His His Gly Lys
 389 405
 392 <210> SEQ ID NO: 5
 393 <211> LENGTH: 2030
 394 <212> TYPE: DNA
 395 <213> ORGANISM: Homo sapiens
 397 <400> SEQUENCE: 5

398	gccccatggc	ggcggttcct	ttaggcagct	gaaaggggat	ttaggcccgg	aagatccgag	60
400	tccatccgcg	gcggggagag	ggcaagcggg	accggtaggg	gccggagcag	cggcggcggc	120
402	gtccggactg	tcccatccgc	cccgatttga	ggcgctggga	gcggcggggc	gacaggaaag	180
404	cgatggtaaa	agcggggccg	tgaggggggc	ggagccggga	gccggacccg	cagtagcggc	240
406	agcagcggcg	ccgcctccca	gagttcagac	ccaggaagcg	gccgggaggg	caggagcggaa	300
408	tcgggcccgc	gccgcattgg	agctgagagt	cgggaacagg	taccggctgg	gccggaagat	360
410	cggcagcggc	tccttcggag	acatctatct	cggtaacggac	attgtctgcag	gagaagaggt	420
412	tgccatcaag	cttgaatgtg	tcaaagccaa	acacccttag	ctccacatttgc	agagcaaaat	480
414	ctacaagatg	atgcagggag	gagtggcat	ccccaccatc	agatggtgcg	ggcagaggg	540
416	ggactacaac	gtcatggta	tggagctgt	ggggcaagc	ctggaggacc	tcttcaactt	600
418	ctgtccagg	aaattcagcc	tcaaaaaccgt	cctgctgtt	gctgacaaaa	tgatcagtgc	660
420	catcgaatac	attcattcaa	agaacttcat	ccaccggat	gtgaagccag	acaacttcct	720
422	catgggcctg	gggaagaagg	gcaacacctgt	gtacatcatc	gacttcgggc	tggccaagaa	780
424	gtacgggat	gcacgcaccc	accagcacat	cccctatcgt	gagaacaaga	acctcacggg	840
426	gacggcgcgg	tacgcctcca	tcaacacgca	ctttggatt	gaacaatccc	gaagagatga	900
428	cttggagtct	ctggctacg	tgctaatgt	cttcaacctg	ggctctctcc	cctggcaggg	960
430	gtcgaaggct	gccaccaaga	gacagaaaata	cgaaaggatt	agcgagaaga	aatgtccac	1020
432	ccccatcgaa	gtgttgtgt	aaggctaccc	ttccgaattt	gccacatacc	tgaatttctg	1080
434	ccgttccttg	cgttttgacg	acaaggctga	ctactcgatc	ctgcggcagc	tttccggaa	1140
436	tctgttccat	cggcagggt	tctcctatga	ctacgtgttc	gactggaaaca	tgctcaaatt	1200
438	tggtgcacgc	cggccgcgg	atgacgcgc	gcgggagcgc	agggaccgag	aggagcggct	1260
440	gagacactcg	cggaaacccgg	ctacccgcgg	cctcccttcc	acagcctccg	gccgcctgcg	1320
442	ggggacgcag	gaagtggctc	cccccacacc	cctcaccctt	acctcacaca	cggctaacac	1380
444	ctcccccccg	cccgcttcgg	gcatggagag	agagcggaaa	gtgagtatgc	ggctgcacccg	1440
446	cggggcccccc	gtcaacatct	cctcgccga	cctcacaggc	cgacaagata	cctctcgcat	1500
448	gtccacactca	cagattcctg	gtcggttggc	ttccagtgtt	cttcagtcgt	tcgtgcacccg	1560
450	atgagaactc	tccttattgc	tgtgaagggc	agacaatgca	tggctgatct	actctgttac	1620
452	caatggcttt	actagtgaca	cgtccccccg	tctaggatcg	aaatgttaac	accggagct	1680
454	ctccaggcca	ctcacccagc	gacgctcg	ggggaaacat	actaaacgga	cagactccaa	1740
456	gagctgccac	cgctgggct	gcactgcgc	cccccacgt	aactcggtt	taacggggct	1800

VERIFICATION SUMMARY DATE: 06/06/2005
PATENT APPLICATION: US/10/536,735 TIME: 11:29:02

Input Set : A:\Sequence Listing.ST25.txt
Output Set: N:\CRF4\06062005\J536735.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date